Software Release Notice

System: MGS Release: McMurdo 2.2

Date: 3 June 99

Modification Description:

McMurdo Station Upgrade

The following changes are planned for McMurdo Ground Station software. This release contains test programs to diagnosis reported problems. Modifications that have been completed since the McMurdo2.1 release.

1. Add NTP control capability to software.

- 2. Fixes ACU scan parameter bug.(MDR99100)
- 3. Stop tape mount at software start. (MDR99035)
- 4. Tape log entry at format.(MDR99031)
- 5. Actual record times in the tape log.(MDR99030, MDR99043, MDR99087)
- 6. Tape is not rewound at software start. (MDR99034, MDR99039)
- 7. At prepass, start scanner at 1 min. before pass, start recorders 10 sec before recorder time, and stopping recording 10 sec. after stop time. (MDR99012, MDR99042)
- 8. General recorder handling improvements. (MDR99047, MDR99065, MDR99082, MDR99077)
- 9. Added debug code for the BSSC/Demod problems.
- 10. Allow support for up to 100 Satellites and graceful degradation if more than 100 satellites are tried.
- 11. Setting of fractional bit rates to BER clock allowed.
- 12. Added time bias per satellite which is will not be removed at prepass.(MDR99040)
- 13. Corrected invalid track analysis results on C200 SCC. (MDR99117)

Files Affected:

The files that were developed and/or utilized as part of McMurdo 2.2 are listed in Attachment 1: McMurdo 2.2 FILES.

Hardware Requirements:

N/A

Validation Procedures:

McMurdo2.2 will be validated through continued daily testing at NASA/McMurodo/10m for scheduled satellite passes. In addition, the following actions can be performed to validate some upgrades included in this release:

- 1. Verify NTP stop when time is changed from GUI and is restarted with 'Start NTP' button.
- 2. Test scan functionality from ACU screen.
- 3. Verify tape does not mount at software start.
- 4. Verify tape log entry is made after format.
- 5. Observe record times in the tape log.
- 6. Verify tape is not rewound at software start.
- 7. Verify recorder pass scheme.

Known Bugs or Limitaions:

Some open DRs may not be resolved in this release due to equipment constraints. SA requests an 8 hour window to install new software, verify fixes and debug the following problems. High elevation passes, Bit sync., master lock up and temperature scanner.

Installation Procedure:

Scientific Atlanta staff will install the new release remotely. It will be necessary to coordinate the time of the update with the operator.

Documentation Affected:

N/A

Comments:

Pam Beard will support this software installation from S-A and her number is (770) 903-2164.

Approval:	
The software modifications described in this release notice has been validated a	nd accepted.
NASA WGS Project Manager	Date
SOFTWARE RELEASED:	
The software modifications described in this release notice have been completed ground station operations.	d and released to
System Manager	Date

Date

NASA Program Monitor

Attachment 1 McMurdo 2.2 Files

The bin Directory:

```
.StartAll
.StartUIF
AntennaControlStartup
CopyETC
Displays
Nasa
NasaStart
RestoreETC
Start
StartRemote
Stop
StopRemote
authent
chkqw
configud
control
dpsHndlr
errhandler
eup
executive
getNtpSyncInfo
ioh
pedcont
postPassShell
que_chk
rci_client
rci_rmt
rci_server
reccon
recsch
resetLANGateway
resetLANGateway2
resetLANGateway3
resetLANGateway4
resetLANGateway5
resetLANGateway6
resetLANGateway7
resetLANGateway8
resetLANGateway9
rmqs
schedmon
snyHndlr
start.awk
start_ntp
status_1
stop.awk
stop_ntp
sup
tapelog
terminal
testexec
time_code_handler
```

track uactask winPrint

$\frac{\text{The etc Directory:}}{\text{N/A}}$

The etc/hpib directory:

N/A

$\frac{\mbox{The etc/config directory:}}{\mbox{N/A}.}$